Quiz Results

File: On_Designing_a_Secure_E-Commerce_Transaction_Manag

Date: 22-04-2025

Score: 3/10

Question 1: What is the primary focus of the article "On Designing a Secure E-Commerce Transaction Management System – A UML Based Approach"?

    A. Improving website design for e-commerce platforms

    B. Enhancing the security of e-commerce transactions

    C. Analyzing customer behavior in online shopping

    D. Developing new marketing strategies for online businesses

Explanation: The article specifically addresses security concerns and proposes solutions for safer online transactions.

Question 2: According to the article, what is a major reason for customer reluctance to participate in e-commerce transactions?

    A. Lack of product variety

    B. High shipping costs

    C. Lack of privacy and security

    D. Complex checkout processes

Explanation: The article explicitly states that customers are hesitant due to security risks and privacy concerns.

Question 3: What technology does the proposed system utilize to enhance security?

      A. SSL encryption

      B. Two-factor authentication

      C. DRM (Digital Rights Management)

      D. Blockchain technology

Explanation: The article mentions using DRM to wrap transaction tokens for enhanced security.

Question 4: How does the proposed system's single-use token improve security?

      A. By allowing multiple transactions with a single token

      B. By expiring after a single use, minimizing potential losses

      C. By storing all transaction data on the customer's device

      D. By eliminating the need for passwords

Explanation: The single-use nature of the token limits the damage from potential theft or interception.

Question 5: What modeling language is used to design the proposed system?

      A. ER diagrams

      B. Flowcharts

      C. UML (Unified Modeling Language)

      D. Petri nets

Explanation: The article clearly states the use of UML for designing the system model.

Question 6: What are some of the risks and challenges mentioned that discourage customer participation in e-commerce?

A. Spoofing, interception of data, data alteration, denial of service, overcharge

B. Slow shipping, high prices, limited product selection, poor customer service

C. Lack of mobile compatibility, complex website navigation, limited payment options

D. Difficulty returning products, lack of product reviews, inaccurate product descriptions

Explanation: The article lists these specific risks as deterrents to customer participation.

Question 7: What is the 'token' in the proposed system comprised of?

A. Customer, merchant, product, and payment information

B. Just the customer's credit card details

C. Only the merchant's product information

D. A randomly generated string of characters

Explanation: The text describes the token as containing details about the customer, merchant, product, and payment amount.

Question 8: Besides digital certificates, what other security component is mentioned as being used in prior attempts to secure e-commerce transactions?

A. Biometric authentication

B. Quantum cryptography

C. Online payment management systems

D. Artificial intelligence-based fraud detection

Explanation: The article mentions online payment management systems alongside digital certificates as existing security measures.

Question 9: According to the article, why is a simple username and password combination not a strong security measure?

    A. It's too complex for users to remember

    B. It's easily detectable by hackers

    C. It doesn't protect against data alteration

    D. It's not compatible with most e-commerce platforms

Explanation: The text explains that usernames and passwords are considered relatively easy to compromise.

Question 10: What university are the authors affiliated with?

    A. University of Calcutta

    B. University of Burdwan

    C. Jadavpur University

    D. Indian Institute of Technology Kharagpur

Explanation: The author affiliations are listed as the University of Burdwan.